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SPECIFICATION OF GEAR REDUCER

Document No.						
RS No.	01000-026					
Order No.						
Designer	Hong.W.Ch.					

Allowable torquekg mSpeed1710rpmOperating timehour per dayover 10Load peak per hourbelow55~10over 10SPECIFICATION OF REDUCERNominal Ratio1/10MATERIAL & HEAT TREATMENTService factorPinionSCM415HCPower cal.NiemannAGMABSGearSCM415HCAdditional coolingNoWaterFanInternal GearWormKindsGREASEWorm wheelQuantity0.3kgCasingGC200ViscosityEP GREASE R00Shaft(L.S)SM45CHC:CarburizingHE:High Frequency	CUSTOMER			ITEM No.				
ApplicationKindsE.MotorEngineOthersNo. of rev.(NOMINAL)171.0rpmPower2KWHPInstallationIndoorOutdoorTypeTEFCPoles4Impact loadUniformMediumHeavyPhaseSingle3Ins. classFAmbient temp.MAX.40Cycle60HzVoltageVAllowable torquekg mSpeed1710rpmOperating timehour per dayover 10speed1710rpmLoad peak per hourbelow55~10over 10speed1710rpmService factorPinionSCM415HCHCPower cal.NiemannAGMABSGearSCM415HCAdditional coolingNoWaterFanInternal GearWormKindsGREASEWormWormShaft(L.S)SM45CQuantity0.3kgCasingGC200Shaft(L.S)SM45CMethodOil bathForcedHC:CarburizingHE:High Frequency	MODEL	RPH 2HP 4P 1/	QUANTITY					
ApplicationKindsE.MotorEngineOthersNo. of rev.(NOMINAL)171.0rpmPower2KWHPInstallationIndoorOutdoorTypeTEFCPoles4Impact loadUniformMediumHeavyPhaseSingle3Ins. classFAmbient temp.MAX.40Cycle60HzVoltageVAllowable torquekg mSpeed1710rpmOperating timehour per dayover 10speed1710rpmLoad peak per hourbelow55~10over 10speed1710rpmService factorPinionSCM415HCHCPower cal.NiemannAGMABSGearSCM415HCAdditional coolingNoWaterFanInternal GearWormKindsGREASEWormWormShaft(L.S)SM45CQuantity0.3kgCasingGC200Shaft(L.S)SM45CMethodOil bathForcedHC:CarburizingHE:High Frequency								
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InstallationIndoorOutdoorTypeTEFCPoles4Impact loadUniformMediumHeavyPhaseSingle3Ins. classFAmbient temp.MAX.40Cycle60HzVoltageVAllowable torquekg mSpeed1710rpmOperating timehour per dayover 10SPECIFICATION OF REDUCERFNominal Ratio1/10MATERIAL & HEAT TREATMENTService factorPinionSCM415HCPower cal.NiemannAGMABSGearSCM415HCAdditional coolingNoWaterFanInternal GearWormKindsGREASEWorm wheelCasingGC200SM45CQuantity0.3kgCasingGC200SM45CMethodOil bathForcedHC:CarburizingHE:High Frequency	Application			Kinds	E.M	lotor	Engine	Others
Impact loadUniformMediumHeavyPhaseSingle3Ins. classFAmbient temp.MAX.40Cycle60HzVoltageVAllowable torquekg mSpeed1710rpmOperating timehour per daySpeed1710rpmLoad peak per hourbelow55~10over 10SPECIFICATION OF REDUCERNominal Ratio1/10MATERIAL & HEAT TREATMENTService factorPinionSCM415HCPower cal.NiemannAGMABSGearSCM415HCAdditional coolingNoWaterFanInternal GearWormKindsGREASEWorm wheelCasingGC200SM45CQuantity0.3kgShaft(L.S)SM45CHC:CarburizingHE:High Frequency	No. of rev. (NOMINAL)) 171.0	rpm	Power	2		KW	HP
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Allowable torquekg mSpeed1710rpmOperating timehour per dayover 10Load peak per hourbelow55~10over 10SPECIFICATION OF REDUCERNominal Ratio1/10MATERIAL & HEAT TREATMENTService factorPinionSCM415HCPower cal.NiemannAGMABSGearSCM415HCAdditional coolingNoWaterFanInternal GearWormKindsGREASEWorm wheelQuantity0.3kgCasingGC200ViscosityEP GREASE R00Shaft(L.S)SM45CHC:CarburizingHE:High Frequency	Impact load Un	iform Medium	Heavy	Phase	Single	3	Ins. class	F
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Load peak per hourbelow55~10over 10SPECIFICATION OF REDUCERNominal Ratio1/10MATERIAL & HEAT TREATMENTService factorPinionSCM415HCPower cal.NiemannAGMABSGearSCM415HCAdditional coolingNoWaterFanInternal GearVormLubricantWormWormKindsGREASEWorm wheelQuantity0.3kgCasingGC200ViscosityEP GREASE R00Shaft(L.S)SM45CMethodOil bathForcedHC:CarburizingHE:High Frequency	Allowable torque		kg m	Speed		1710		rpm
SPECIFICATION OF REDUCER Nominal Ratio 1/10 MATERIAL & HEAT TREATMENT Service factor Pinion SCM415 HC Power cal. Niemann AGMA BS Gear SCM415 HC Additional cooling No Water Fan Internal Gear Morm Lubricant Worm Worm Morm Morm wheel Morm wheel Morm wheel Quantity 0.3 kg Casing GC200 GC200 Mater Method Oil bath Forced HC:Carburizing HE:High Frequency HE:High Frequency	Operating time	ho	ur per day					
Nominal Ratio1/10MATERIAL & HEAT TREATMENTService factorPinionSCM415HCPower cal.NiemannAGMABSGearSCM415HCAdditional coolingNoWaterFanInternal GearHCLubricantWormKindsGREASEWorm wheelHCQuantity0.3kgCasingGC200Shaft(L.S)SM45CViscosityEP GREASE R00Shaft(L.S)SM45CHC:CarburizingHE:High Erequency	Load peak per hour	below5	5~10	over 10				
Service factor Pinion SCM415 HC Power cal. Niemann AGMA BS Gear SCM415 HC Additional cooling No Water Fan Internal Gear Internal Gear Morm Lubricant Worm Worm Vorm Vorm More Heil More Heil Quantity 0.3 kg Casing GC200 GC200 Shaft(L.S) SM45C Method Oil bath Forced HC:Carburizing HE:High Frequency HE:High Frequency		SF	PECIFICATIO	N OF REDL	JCER			
Power cal.NiemannAGMABSGearSCM415HCAdditional coolingNoWaterFanInternal GearLubricantWormWormKindsGREASEWorm wheelQuantity0.3kgCasingGC200ViscosityEP GREASE R00Shaft(L.S)SM45CMethodOil bathForcedHC:CarburizingHE:High Frequency	Nominal Ratio	1/10			MATERIAL	& HE	AT TREATM	ENT
Additional cooling No Water Fan Internal Gear Lubricant Worm Worm wheel Quantity 0.3 kg GREASE Viscosity EP GREASE R00 Shaft(L.S) SM45C Method Oil bath Forced HC:Carburizing HE:High Frequency	Service factor			Pinion		S	CM415	HC
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KindsGREASEWorm wheelQuantity0.3kgCasingGC200ViscosityEP GREASE R00Shaft(L.S)SM45CMethodOil bathForcedHC:CarburizingHE:High Frequency	Additional cooling	No Water	Fan	Internal G	iear			
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Viscosity EP GREASE R00 Shaft(L.S) SM45C Method Oil bath Forced HC:Carburizing HE:High Frequency	Kinds	GREASE		Worm wh	eel			
Method Oil bath Forced HC:Carburizing HE:High Frequency	Quantity	0.3	kg	Casing		(GC200	
Method Oil bath Forced HC:Carburizing HF:High Frequency	Viscosity	EP GREASE R	00	Shaft(L.S	5)	S	SM45C	
	Method	Oil bath Fo	orced	Symbol	HC:Carb	ourizin	g HF:High	Frequency
Max. oil temp. 120 HN:Nitriding QT:Quenching-Tempering				HN:Nitriding QT:Quenching-Tempering				
DIRECTION OF REV.(View from shaft side) APPENDED DRAWINGS								
High speed shaft CW CCW Outline dwg. No. GKEN244	High speed shaft						GK	EN244
Low speed shaft CW CCW Sectional dwg No.	•	CW C	CW	-				
	Arrangement of shaft			Painting (Munsell No.) 7.5BG 5/2				
ACCESSARIES WEIGHT (APPROX.)	ACCE	SSARIES			WEI	GHT (/	APPROX.)	
Driver kg				Driver				kg
Gear Reducer kg					ucer			kg
Others kg				-				kg
Total 40 kg								
Except details specified on this DATA SHEET, all subjects including test								test
REMARKS shall be performed in accordance with MAKER STANDARD.								
*** PLEASE REFER TO APPENDED DWG. FOR THE FOLLOWING No. :		*** PLEASE R	EFER TO AP	PENDED	DWG. FOR	THE F	OLLOWING I	No.:

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